

**MINUTES**

**620<sup>th</sup> MEETING**

**STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY-TAMIL NADU**

**Date: 22.05.2023**

**MINUTES OF THE 620<sup>th</sup> MEETING OF THE STATE LEVEL ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY HELD ON 22.05.2023.**

Agenda No	Description	File No.	Minutes
a)	Confirmation of the minutes of the 619 <sup>th</sup> meeting of the Authority held on 18.05.2023.		The minutes of the 619 <sup>th</sup> meeting of the Authority held on 18.05.2023 was confirmed.
b)	The Action taken on the decisions of the 619 <sup>th</sup> meeting of the Authority held on 18.05.2023.		The Member Secretary informed that 619 <sup>th</sup> Minutes uploaded in Parivesh website and action taken report will be put up ensuing meeting.
1.	Proposed Rough Stone & Gravel Quarry lease over an extent of 0.28.5Ha S.F.No.117/8, Thattaparai Village, Gudiyatham Taluk, Vellore District by Thiru.R.Kalki – for Environmental Clearance.	9761	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023 and SEAC noted that there are about 35 to 50 Nos. of people reside in 27 Nos. of houses within 300m radius of the proposed and the proposed was found to be full of greenery. In this connection it was observed that as per the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows</p> <p>Rule NO. 36 (1-A) (a) No lease shall be granted for quarrying stone within 300 metres (three hundred metres) from any inhabited site.</p> <p>‘Inhabited site’ shall mean a village site or town site or a house site as referred to in the revenue records or a house site or layout approved by a Local Body or Town or Country or Metropolitan Planning Authority, where the said Body or Authority is created under a statute and empowered to approve such an area as a house site or layout area.</p> <p>In view of the above, SEAC has decided <b>not to recommend</b> the proposal for grant of EC.</p> <p>In view of the above, the authority after detailed discussion decided unanimously to accept the</p>

  
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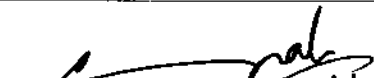
			recommendation of SEAC, hence this proposal seeking EC is not recommended and stands rejected.
2.	Proposed Rough Stone & Gravel Quarry lease over an extent of 2.31.5Ha S.F.No.229/1, 4(P) & 5(P), Ayilam Village, Walajah Taluk, Ranipet District by Thiru.R.Madhavan – for Environmental Clearance.	9768	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of <b>156934m<sup>3</sup> of Rough Stone &amp; 9880m<sup>3</sup> of Gravel by the depth of mining upto 45m BGL</b> as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> </ol>

  
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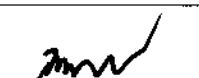
  
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		<ol style="list-style-type: none"> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</li> <li>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</li> <li>7. The project proponent shall store/dump 13083 cu.m of Weathered Rock &amp; Topsoil generated within the earmarked area of the project site and the utilize the same for mine closure.</li> <li>8. The project proponent shall spend EMP cost of <b>Rs.114.784 Lakhs/5 Years</b> including capital &amp; recurring cost with 5% inflation cost anticipated every year as committed.</li> </ol>
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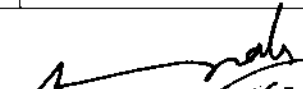
			<p>9. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the CER cost is <b>Rs. 5 Lakhs</b> and the amount shall be spent for the <b>Panchayat Union Primary School, Ramapuram Village, Arcot Taluk, Ranipet District</b> as committed, before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
3.	Proposed Rough Stone & Gravel Quarry lease over an extent of 4.79.0Ha S.F.No.1019/2 (Part), 1021/3 (Part), 1022 (Part) & 1023/3 (Part), Kuppam Village, Pugalur Taluk, Karur District Tamil Nadu by M/s. Alpha Blue Metals- for Environmental Clearance	9775	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>The authority noted that this is a B2 category project. The study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life.</p> <p>i. Impact on the local population due to the air pollution and dust.</p>

  
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		<ul style="list-style-type: none"> <li>ii. Impact on the water quality, land quality in terms of pollution.</li> <li>iii. Impact on soil erosion.</li> <li>iv. Impact on health of workers and people around. Particularly skin, respiratory tract problems leading to Bronchitis and neurological issues, ulcer, cardiovascular, pulmonary diseases, asthma and other air borne disease.</li> <li>v. Detailed and sound Environmental Management Plan and policy to achieve scientific and sustainable mining. Action for protection and conservation of the Natural resources.</li> <li>vi. Impact on vegetation, wildlife. List of major flora, fauna and trees.</li> <li>vii. Arrangement for safe drinking water to the workers.</li> <li>viii. Anticipated total particulate matters and PM<sub>10</sub> concentration during project period.</li> <li>ix. Impact on waterbodies, lakes, borewells and water table.</li> <li>x. What is the restoration program and plan for mine pit closure.</li> <li>xi. Impact on temperature, Climate change and GHG emissions.</li> <li>xii. Impact on Agriculture and Horticulture.</li> <li>xiii. Impact on Noise pollution.</li> <li>xiv. Biomagnification effect through food chain on human, Gracing animals and wildlife.</li> </ul> <p>In view of the above, the authority after detailed discussion decided to defer the proposal and to direct the PP to furnish the above said details/additional particulars.</p>
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4.	Proposed Rough Stone Quarry lease over an extent of 1.50.0Ha (Govt. Poramboke Land) S.F.No.137(Part), Moolakkadu Village, Mettur Taluk, Salem District by Thiru.M.Arumugam- for Environmental Clearance.	9782	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023 and SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of <b>90365 m<sup>3</sup> of Rough Stone and depth of mining is 41m (31m AGL + 10m BGL)</b> as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC</li> </ol>
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while seeking a renewal of the mining plan to cover the project life.

4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.
6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.
7. The project proponent shall store/dump **10400 m<sup>3</sup> of Topsoil** generated within the earmarked area of the project site and the utilize the same for mine closure.
8. The project proponent shall spend EMP cost of **Rs.203.12 Lakhs/10 Years** including capital & recurring cost with 5% inflation cost anticipated every year as committed.
9. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and

  
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			<p>20.10.2020 accepted by the Project proponent, the CER cost is <b>Rs. 5 Lakhs</b> and the amount shall be spent for the <b>Panchayat Union Middle School, Moolakkadu Village, Kolathur Union, Salem District</b> as committed, before obtaining CTO from TNPCB.</p> <p>10. All the trees listed within the proposed mining area shall be transplanted all along the boundary.</p> <p>11. The PP shall ensure protection for the list of shrubs, herbs, climbers and the threatened/endangered vulnerable species within the proposed mining area as mentioned in the documents submitted.</p> <p>12. The PP shall ensure that the Wildlife habitat and Biodiversity shall not be disturbed.</p> <p>13. The PP shall ensure no impact on surrounding waterbodies and water course by the way of soil erosion, etc.</p>
5.	Proposed Rough Stone and Gravel Quarry over an Extent of 1.39.0 Ha at S.F.Nos. 14/1 and 15/2 of Azhagiyapakkam Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Thiru.R.Rasu -For Environmental Clearance	9762	<p>The Authority noted that this proposal was placed for appraisal in this 373<sup>rd</sup> Meeting of SEAC held on 28.04.2023.</p> <p>The SEAC noted that the proponent, Thiru.R.Rasu has earlier submitted application No. SIA/TN/MIN/73833/2022 dt: 21.03.2022 (File No. 9113/2020) under B1 Category was appraised vide 284<sup>th</sup> Meeting of SEAC held on 10.06.2022. Based on the presentation made by the proponent and considering safety point of view, SEAC recommended to remove the last bench in XY-CD section. Accordingly grant of Terms of Reference (TOR) with</p>

  
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Public Hearing is issued for the production of 1,19,220 Cu.m of rough stone, 9024 Cu.m of Weathered Rock and 19332 cu.m. of Gravel in 5 years with ultimate depth 33m, subject to the TORs as stated therein, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report.

Subsequently, this proposal was placed in this 529<sup>th</sup> Meeting of Authority held on 05.07.2022. The Authority after detailed discussion decided to call for the following details from the project proponent.

- i. Details of water bodies in the 2km radius of the proposed mining site.
- ii. NOC from DFO in regard to impact of mining on nearby R.F (Sevor R.F @ 2.5 km & straying wild animals.


Meanwhile, the proponent has submitted a request letter to withdraw the online proposal number SIA/TN/MIN/73833/2022 dt: 21.03.2022 (9113/2022).

Subsequently, the PP had resubmitted a fresh application under B2 Category vide online Application No.SIA/TN/MIN/413235/2023 dt 12.01.2023 (9762/2023) and obtained a fresh 500m cluster certificate vide Rc.No.B/G&M/420/2018 dated: 27.09.2022 from DD/mines, Villupuram District.

Hence, the subject (9762/2023) was placed in the 373<sup>rd</sup> Meeting of SEAC held on 28.04.2023. During the meeting, the Committee noted that the withdrawal request submitted by the PP for the earlier online application No.SIA/TN/MIN/73833/2022 dt:

  
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			<p>21.03.2022(9113/2022) is still pending before the Authority.</p> <p>Therefore, the SEAC decided to take this subject (9762/2023) after acceptance of the withdrawal request by the Authority for the file 9113/2022.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 28.04.2023.</p>
6.	Proposed Rough stone quarry lease over an extent of 2.00.0 Ha at S.F. No.67 (Part) of Kunniyur Village, Kallakurichi Taluk, Viluppuram District, Tamil Nadu by Thiru. K.Sakthivel -For Environmental Clearance	9783	<p>The Authority noted that this proposal was placed for appraisal in this 373<sup>rd</sup> Meeting of SEAC held on 28.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details.</p> <ol style="list-style-type: none"> <li>1. The PP shall furnish revised EMP by including Slope stability action plan as the proposed depth is more than 40m.</li> <li>2. As the Govt. Elementary school is located at a distance of 0.46 km from the proposed site, the implications of the proposed mining operations on the functioning of the school and the mitigation measures proposed.</li> </ol> <p>On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.</p> <p>In view of the above, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 28.04.2023.</p>

  
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7.	Proposed Red Earth and Pebbles quarry lease over an extent of – 2.10.0 ha S.F.No. 58/1(Part-II) of Kallamedu Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru. S. Manoharan– For Environmental Clearance	9770	<p>The Authority noted that the subject was appraised in 373<sup>rd</sup> meeting of SEAC held on 28.04.2023 and SEAC has stated that,</p> <p>On perusal of the online application pertaining to the project, SEAC noticed that the Project Proponent's name does not match with that mentioned in the statutory approvals. As the Environmental Clearance is auto-generated and name correction is not permitted on PARIVESH web portal, the Committee directed the Proponent to withdraw this online application and file a new one. On receipt of the new online application the subject may be placed before the SEAC for appraisal.</p> <p>In view of the above, the Authority accepted the recommendations of the Committee and decided to request the Member Secretary, SEIAA to communicate the decision of the SEAC to the Project Proponent.</p>
8.	Proposed Rough Stone and Gravel quarry lease over an extent of – 1.77.5 ha S.F.No. 24/3, Thennampattu Village, Ambur Taluk, Tirupathur District, Tamil Nadu by Thiru.N.Soundarajan– For Environmental Clearance	9784	<p>The Authority noted that the subject was appraised in 373<sup>rd</sup> meeting of SEAC held on 28.04.2023. The SEAC has noticed that a habitation with about 100 number of houses is situated at a distance of 143m from the project site. Hence the SEAC decided <b>not to recommend</b> the proposal for the grant of Environmental Clearance.</p> <p>The Authority accepted the recommendations of the Committee and decided to reject the Environmental Clearance for this project and further requested the Member Secretary, SEIAA to communicate the decision of the Authority to the Project Proponent.</p>

  
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9.	Proposed Rough Stone & Gravel quarry lease area over an extent of Extent 1.14.15 Ha at SF.No. 306/3(P) of Kombankulam Village, Sathankulam Taluk, Thoothukudi District, Tamil Nadu by M/s. R. R. Blue Metals - For Environmental Clearance.	7620	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance. <b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 69,310 m<sup>3</sup> of rough stone &amp; 14,700 m<sup>3</sup> of Gravel for the depth of mining up to 18m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC</li> </ol>
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			<p>while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
10.	Proposed Earth quarry lease over an extent of 0.84.0 Ha at S.F.No. 1031/1A (Part) of Cumbum Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru. G. Murugan - For Environmental Clearance.	8474	<p>The proposal was placed in the 373<sup>rd</sup> SEAC Meeting held on 28.04.2023.</p> <p>The proposal was earlier placed in 252<sup>nd</sup> SEAC meeting held on 10.03.2022. The Committee examined the proposal submitted by the proponent in the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P. (MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021. In this Judgment, the Hon'ble High Court</p>

  
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		<p>was examining the legality of mining permits or license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.</p> <ol style="list-style-type: none"> <li>i. <i>There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.</i></li> <li>ii. <i>There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.</i></li> <li>iii. <i>A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.</i></li> <li>iv. <i>The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period</i></li> </ol>
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of eight weeks from the date of receipt of a copy of this order.

- v. The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.
- vi. Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.
- vii. The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.
- viii. Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA and depending upon the report further proceedings may take place in accordance with law and there must be a mechanism to

  
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*ensure the conditions of SEIAA are strictly complied with.*

Acting on the above Judgment, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:

- No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
- No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
- No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
- Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

In the present case, the Committee, therefore directed the proponent to submit the following additional details for further processing the proposal.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared

  
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			<p>protected zones in terms of the above Judgment.</p> <p>Subsequently, the proposal was placed in the 496<sup>th</sup> Authority held on 24.03.2022. After detailed discussions, the Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 10.03.2022.</p> <p>Now, the proposal was again placed in the 373<sup>rd</sup> SEAC meeting held on 28.04.2023. Based on the presentation made and documents furnished by the proponent, SEAC noted that the proponent had submitted two soil analysis test report obtained from the same university on the same date with two different results. Hence, the proponent is requested to submit the original copy of both the results obtained from the university.</p> <p>On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 373<sup>rd</sup> SEAC held on 28.04.2023 to the project proponent.</p>
11.	Proposed Brick Earth quarry lease area over an extent of Extent 2.52.0 Ha at SF. No. 120(P), 113/1, 115/1, 2, 3, 4, 5, 115/6 & 121/1A of Arumbakkam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Thiru. J. Mani - For Environmental Clearance.	9771	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.</p> <p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted</b></p>

  
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quantity of 19,666m<sup>3</sup> of Brick Earth for the depth of mining up to 1m BGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior

  
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			<p>environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
12.	Proposed Rough stone quarry lease area over an extent of Extent 1.98.0 Ha at SF. No. 919/1B, 919/2 & 919/6 of P. N. Patti Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru. R.S. Elamvazuthi - For Environmental Clearance.	9778	<p>The proposal was placed in the 373<sup>rd</sup> SEAC Meeting held on 28.04.2023.</p> <p>Based on the presentation made by the proponent, SEAC noted that</p> <ol style="list-style-type: none"> <li>i. The proposed mine lease area is located at a distance of approximately 205m from the Stanley Reservoir in the upstream side.</li> <li>ii. The proposed Mine lease area is located at a distance of approximately 1.99 Km from the Mettur Dam in the upstream side.</li> <li>iii. The proposed Mine Lease area is at a distance of approximately 390m from Thermal Power Station.</li> <li>iv. The proposed Mine Lease area is at a distance of approximately 810m from Water Intake structure.</li> </ol> <p>Based on the above facts, SEAC decided to call for additional details</p> <ol style="list-style-type: none"> <li>1. Certified compliance report pertaining to the existing quarry from the Competent Authority.</li> </ol>

  
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			<p>2. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building – Commercial/ industrial/ Residential/ Farm house/ Government building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures-whether it belongs to the PP (or) not, etc.</p> <p>3. Copy of the NoC obtained from WRD-TN for the proposed mining activity.</p> <p>4. The details regarding the existing depth and depth of mining for which earlier EC was accorded.</p> <p>On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.</p> <p>In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 373<sup>rd</sup> SEAC held on 28.04.2023 to the project proponent.</p>
13.	Proposed Rough stone quarry lease area over an extent of Extent 2.43.0 Ha at SF.No. 53/12B (Part), 53/13, 53/14, 53/15, 53/16, 53/17, 53/23 (Part), 53/24, 53/25A, 53/25B,53/25C, 53/27, 57/1, 57/2, 57/3, 57/4A, 57/4B, 57/5 & 57/9 (Part) of Palayaseevaram B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru. V. Janakiraman - For Environmental Clearance.	9792	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023.</p> <p>Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.</p> <p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also considering the tanks nearby and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the restricted quantity of 1,86,071 m<sup>3</sup> of rough stone &amp; 24,094 m<sup>3</sup> of Gravel for the depth of mining up to</b></p>

  
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35m BGL as per the mine plan approved by the Department of Geology & Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&CC & all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.

1. Keeping in view of MoEF&CC notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.
2. The mining is restricted to section XY-AB and XY-CD and the proponent shall not carry out mining in section X1Y1-EF and X2Y2-EF.
3. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.
4. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&CC while seeking a renewal of the mining plan to cover the project life.
5. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.
6. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-

  
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			<p>monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>7. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
14.	Proposed Rough Stone & Gravel quarry Lease over an extent of 4.81.5 Ha at S.F.No. 187/5, 187/6, 187/7 & 188/4 in Vallakulam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by M/s. Topvale Plantations Private Limited – For Environmental Clearance.	9765	<p>The authority noted that the subject was appraised in the 373<sup>rd</sup> SEAC meeting held on 28.04.2023. SEAC has furnished its recommendations to the authority for granting environmental clearance subject to the conditions stated therein.</p> <p>The Authority, after detailed deliberations decided to consider the proposal after obtaining the following particulars from the project proponent:</p> <ol style="list-style-type: none"> <li>1. Since this is a B2 category project with a project area of more than 3 hectares, the study in the Pre-feasibility report on Environmental impacts needs more details as follows, to cover project life: <ol style="list-style-type: none"> <li>a) Action plan for the protection and conservation of natural resources.</li> <li>b) Arrangement for safe drinking water to the workers.</li> </ol> </li> </ol>

  
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			<p>c) Impact on vegetation, wildlife. List of major flora, fauna, and trees.</p> <p>d) Anticipated total particulate matters and PM<sub>10</sub> concentration during the project period.</p> <p>e) Impact on waterbodies, lakes, borewells, and water table due to the proposed mining activity.</p> <p>f) What are the restoration program and plan for mine pit closure?</p> <p>g) Impact of the proposed mining activity on temperature, Climate change, and GHG emissions.</p> <p>h) Biomagnification effect through food chain on humans, Gracing animals and wildlife.</p>
15.	Proposed Rough Stone quarry lease over an extent of – 0.50.0 Ha S.F.No. 919/1A, P.N.Patti Village, Mettur Taluk, Salem District, Tamil Nadu by Thiru.A. Manickam – For Environmental Clearance.	9777	The Authority noted that the subject was appraised in 373 <sup>rd</sup> meeting of SEAC held on 28.04.2023.and SEAC has sought certain additional details: The Authority decided to request the Member Secretary, SEIAA to communicate the minutes of the SEAC to the Project Proponent.
16.	Proposed Rough Stone & gravel Quarry over an extent of 2.44.0 Ha in SF.No. 47/1(P) and 47/2(P) at Echampattu Village, Ambur Taluk, Tirupathur District, Tamil Nadu by Thiru.N.Kumar- For Environmental Clearance.	9780	The authority noted that this proposal was placed for appraisal in 373 <sup>rd</sup> meeting of SEAC held on 28.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein. <b>After detailed discussions, the Authority decided to grant Environmental Clearance for the quantity of 1,08,960m<sup>3</sup> of Rough stone and 23,664m<sup>3</sup> of Gravel up to the depth of mining 18m BGL, as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC</b>

  
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		<p><b>&amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</li> <li>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year</li> </ol>
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			<p>wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
17.	<p>Proposed Earth Quarry over an extent of 2.71.50 Ha in SF.No. 191/2, 197/1, 197/2 &amp; 197/3 at Kanavaipatti Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru. R.Ramar- For Environmental Clearance.</p>	9794	<p>The authority noted that this proposal was placed for appraisal in 373<sup>rd</sup> meeting of SEAC held on 28.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p><b>After detailed discussions, the Authority decided to grant Environmental Clearance for the quantity of 22,016m<sup>3</sup> of Earth up to the depth of mining 1.5m BGL for 3 years, as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 3 years till the project life. They should also review the EC conditions to</li> </ol>

  
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			<p>ensure that they have all been adhered to and implemented.</p> <p>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p>
18.	Proposed Rough Stone Quarry lease over an extent of extent of 2.54.0 Ha at S.F.No.11/1, 11/2, 11/3, 11/4, 11/5, 11/7, 11/8, 11/9 & 11/10 of Panampatti Village,	9760	The authority noted that the subject was appraised in 373 <sup>rd</sup> SEAC meeting held on 28.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

  
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<p>Illuppur Taluk, Pudukottai District, Tamil Nadu by Thiru.B.Kajamaideen- for Environmental Clearance.</p>	<p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 3,17,875 m<sup>3</sup> of rough stone and 39,674 m<sup>3</sup> of gravel with an ultimate depth of mining upto 29m BGL as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</li> <li>4. The progressive and final mine closure plan including the green belt implementation and</li> </ol>
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			<p>environmental norms should be strictly followed as per the EMP.</p> <ol style="list-style-type: none"> <li>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</li> <li>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</li> <li>7. The project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</li> <li>8. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 5 Lakhs and the amount shall be spent towards the Government High School, Maruthanthalai, Pudukottai District for the activities as committed, before obtaining CTO from TNPCB.</li> </ol>
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19.	Proposed Rough Stone Quarry lease over an extent of 1.37.0ha S.F.Nos.261/3A & 261/4 (Part)Thenkodipakkam Village. Vanur Taluk, Viluppuram District, Tamil Nadu by Thiru. P. Balakrishnan – for Environmental Clearance	9774	<p>The authority noted that the subject was appraised in 373<sup>rd</sup> SEAC meeting held on 28.04.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.</p> <p><b>After detailed discussions, the Authority taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of 66,912 m<sup>3</sup> of rough stone and 17,208 m<sup>3</sup> of gravel with an ultimate depth of mining upto 15m BGL (2m Gravel + 13m Rough Stone) as per the mine plan approved by the Department of Geology &amp; Mining. This is also subject to the standard conditions as per Annexure - (I) of SEAC minutes, other normal conditions stipulated by MOEF&amp;CC &amp; all other specific conditions as recommended by SEAC in addition to the following conditions and the conditions in Annexure 'A' of this minutes.</b></p> <ol style="list-style-type: none"> <li>1. Keeping in view of MoEF&amp;CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</li> <li>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years till the project life. They should also review the EC conditions to ensure that they have all been adhered to and implemented.</li> <li>3. The project proponent shall furnish a Certified Compliance Report obtained from</li> </ol>
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		<p>MoEF&amp;CC while seeking a renewal of the mining plan to cover the project life.</p> <ol style="list-style-type: none"> <li>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP.</li> <li>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</li> <li>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work &amp; expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</li> <li>7. The project proponent shall store/dump Top soil, Weathered Rock &amp; Granite Waste generated within the earmarked area of the project site and the utilize the same for mine closure as per the approved mine closure plan.</li> <li>8. As per the MoEF&amp; CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 as accepted by the Project proponent the revised CER cost is Rs. 5 Lakhs and the amount shall be spent towards the</li> </ol>
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			Govt. Hr Sec. School, Thenkodipakkam, Viluppuram District for the activities as committed, before obtaining CTO from TNPCB.
20.	Proposed Rough Stone Quarry lease over an extent of 0.64.5ha of Patta land in S.F.No. 140/1 & 141/2 of Moolakkadu Village, Mettur Taluk, Salem District, Tamil Nadu by ThiruM.P.Shanmugaraja- for Environmental Clearance	9781	The authority noted that this proposal was placed for appraisal in 373 <sup>rd</sup> meeting of SEAC held on 28.04.2023 and SEAC noted that the proposed site is in an ecologically sensitive area. It is surrounded by the Palamali RF on three sides and the fourth side is very close to Mettur dam. Therefore, SEAC decided <b>not to recommend</b> the proposal for the grant of Environmental Clearance. In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.
21.	Proposed Rough Stone quarry lease area over an extent of 1.70.0Ha at S.F.Nos.529 (P), 530/1 & 530/2,Thorappalli Agraharam village, Hosur Taluk,Krishnagiri District, Tamil Nadu by M/s. XEC Blue Metals - For Environmental Clearance.	9788	The authority noted that this proposal was placed for appraisal in 373 <sup>rd</sup> meeting of SEAC held on 28.04.2023 and the SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence. In view of the above, the Authority decided to request Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent.
22.	Existing Grey Granite (Paradiso) Mine Lease over an extent of 1.21.0 Ha at S.F.No. 438 (part) in Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Tmt.S. Naseera – For Environmental Clearance	4793	The authority noted that the subject was appraised in the 373 <sup>rd</sup> SEAC meeting held on 28.04.2023. During the meeting, the Committee after detailed deliberations, decided to defer the proposal and take up again for discussion in the ensuing meeting. In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to

  
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			communicate the minutes of the 373 <sup>rd</sup> SEAC meeting to the project proponent.
23.	Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 1.46.5 Ha at S.F.No. 1040/5, 1041/1, 1041/2, 1041/3 & 1041/4 in Sevalkulam Village, Tiruvengadam Taluk, Tirunelveli District, Tamil Nadu by Thiru. C. Jagadeesan – For Environmental Clearance	7159	The authority noted that the subject was appraised in the 373 <sup>rd</sup> SEAC meeting held on 28.04.2023. During the meeting, the Committee after detailed deliberations, decided to defer the proposal and take up again for discussion in the ensuing meeting. In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 373 <sup>rd</sup> SEAC meeting to the project proponent.
24.	Proposed Earth Quarry lease over an Extent of 3.64.5 Ha in S.F.No. 712/2C, 712/2D & 712/2E (P), Thirumullaivasal Village, Sirkazhi Taluk, Mayiladuthurai (Formerly Nagapattinam) District, Tamil Nadu by Thiru. V. Senthamilseran – For Environmental clearance	7439	The authority noted that the subject was appraised in the 373 <sup>rd</sup> SEAC meeting held on 28.04.2023. Based on the presentation and details furnished by the project proponent, the Committee decided to obtain the following additional particulars from the proponent: i) A sworn affidavit from the proponent stating that the project site will be used only for agriculture/horticulture purposes after the proposed removal of earth. ii) The KML file shall be re-uploaded in the PARIVESH Portal in proper viewable format. In view of this, the authority after deliberations, decided to request Member Secretary, SEIAA to communicate the minutes of the 373 <sup>rd</sup> SEAC meeting to the project proponent.

**Annexure-'A'**

**EC Compliance**

1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the Application Form, Pre-feasibility Report, mitigation measures as assured in the

  
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- Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.
2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.
  3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).
  4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

**Applicable Regulatory Frameworks**

5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002 and Biological diversity Rules, 2004 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter

**Safe mining Practices**

6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc.
7. The AD/DD, Dept. of Geology & Mining & Director General of Mine safety shall ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study of the reputed research & Academic Institutions as a safety precautionary measure to avoid untoward accidents during mining operation.

  
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8. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.

**Water Environment – Protection and mitigation measures**

9. The proponent shall ensure that the activity does not disturb the water bodies and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area.
10. The proponent shall ensure that the activities do not impact the water bodies/wells in the neighboring open wells and bore wells. The proponent shall ensure that the activities do not in any way affect the water quantity and quality in the open wells and bore wells in the vicinity or impact the water table and levels. The proponent shall ensure that the activities do not disturb the river flow, nor affect the Odai, Water bodies, Dams in the vicinity.
11. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.
12. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA.
15. Regular monitoring of ground water level and water quality shall be carried out around the mine area during mining operation. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
16. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.

**Air Environment – Protection and mitigation measures**

  
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17. The activity should not result in CO<sub>2</sub> release and temperature rise and add to micro climate alternations.
18. The proponent shall ensure that the activities undertaken do not result in carbon emission, and temperature rise, in the area.
19. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.

**Soil Environment – Protection and mitigation measures**

20. The proponent shall ensure that the operations do not result in loss of soil biological properties and nutrients.
21. The proponent shall ensure that activity does not deplete the indigenous soil seed bank and disturb the mycorrhizal fungi, soil organism, soil community nor result in eutrophication of soil and water.
22. The activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.
23. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.
24. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermin-composting, Biofertilizers to ensure soil health and biodiversity conservation.
25. The proponent shall ensure that the topsoil is protected and used in planting activities in the area.
26. The proponent shall ensure that topsoil to be utilized for site restoration and Green belt alone within the proposed area.
27. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

**Noise Environment – Protection and mitigation measures**

28. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

  
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29. The sound at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Hence, the PP shall ensure that the biological clock of the villages are not disturbed because of the mining activity.

**Biodiversity - Protection and mitigation measures**

30. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.
31. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activity does not result in invasion by invasive alien species. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around.
32. The proponent shall ensure that the activities do not disturb the agro biodiversity and agro farms. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.
33. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.
34. The proponent shall ensure that the activities do not impact green lands/grazing fields of all types surrounding the mine lease area which are food source for the grazing cattle.

**Climate Change**

35. The project activity should not in any way impact the climate and lead to a rise in temperature.
36. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.
37. Intensive mining activity should not add to temperature rise and global warming.

  
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38. Operations should not result in GHG releases and extra power consumption leading to Climate Change.
39. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.
40. Mining Operation should not result in droughts, floods and water stress, and shortages, affecting water security both on site and in the vicinity.
41. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.
42. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.

#### **Reserve Forests & Protected Areas**

43. The activities should provide nature based support and solutions for forest protection and wildlife conservation.
44. The project activities should not result in forest fires, encroachments or create forest fragmentation and disruption of forest corridors.
45. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.
46. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.
47. The project activities should not alter the geodiversity and geological heritage of the area.
48. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behaviour of wildlife and flora.
49. The activities should support and recognise the rights and roles of indigenous people and local communities and also support sustainable development.
50. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.
51. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.

#### **Green Belt Development**

52. The proponent shall ensure that in the green belt development more indigenous trees species (Appendix as per the SEAC Minutes) are planted.

  
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53. The proponent shall ensure the area is restored and rehabilitated with native trees as recommended in SEAC Minutes (in Appendix).

**Workers and their protection**

54. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.

55. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.

56. The workers shall be employed for working in the mines and the working hours and the wages shall be implemented/enforced as per the Mines Act, 1952.

**Transportation**

57. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.

58. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt

  
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conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

**Storage of wastes**

59. The project proponent shall store/dump the granite waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.

**CER/EMP**

60. The CER Should be fully Implemented and fact reflected in the Half-yearly compliance report.

61. The EMP Shall also be implemented in consultation with local self-government institutions.

62. The follow-up action on the implementation of CER Shall be included in the compliance report.

**Directions for Reclamation of mine sites**

63. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration.

64. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.

65. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter. have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.

  
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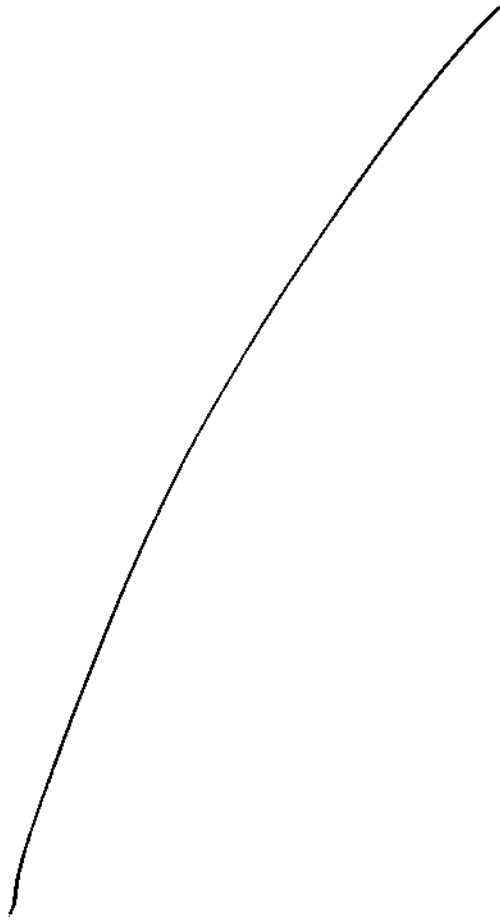
66. For mining area reclamation plot culture experiments to be done to identify/ determine suitable species for the site.
67. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized.
68. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site.
69. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.
70. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc of pioneering spices should be collected, preserved and used in restoring the site.
71. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant communities to establish. Grasses may offer superior tolerance to drought, and climatic stresses.
72. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoils should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread.
73. Alkaline soils, acidic soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. The land disturbed should be reshaped for long term use. Mining should be as far as possible be eco-friendly. Integration of rehabilitation strategies with mining plan will enable speedy restoration.

  
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74. Efforts should to taken to aesthetically improve the mine site. Generally, there are two approaches to restoration i.e Ecological approach which allows tolerant species to establish following the succession process allowing pioneer species to establish. The other approach i.e plantation approach is with selected native species are planted. A blend of both methods may be used to restore the site by adding soil humus and mycorrhiza.
75. Action taken for restoration of the site should be specifically mentioned in the EC compliances.



  
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